



## GPAP-1 CODING SEQUENCE

- SEQ ID NO: 38 and 39

GAAP1 ATGGCATTAGGTATCAAAAGTCCACAGTAGTTCGATTTCAGCAATAAAGATGCTCTGAAATTACAGTG 70  
PRDII ATGGCATTAGGTATCAAAAGTCCACAGTAGTTCGATTTCAGCAATAAAGATGCTCTGAAATTACAGTG 70

GAAP1 AGCAAGATAAAGAAATTCCTTATCAAAAGTGAACCAAGACGAATTAAATATTTGATGAGGATATTA 140  
PRDII AGCAAGATAAAGAAATTCCTTATCAAAAGTGAACCAAGACGAATTAAATATTTGATGAGGATATTA 140

GAAP1 GTCAATGCAAGAGTATGTATATGTCGAGGCCAGGGGAGGAGGAATTCATTTCGAGAGATGTCGAATA 210  
PRDII GTCAATGCAAGAGTATGTATATGTCGAGGCCAGGGGAGGAGGAATTCATTTCGAGAGATGTCGAATA 210

GAAP1 CGTTGTAGAAACCTAGCATTGTAAAGAAACACATAAGAACCCATACGATGTGCGGCCCTACCACTGCA 280  
PRDII CGTTGTAGAAACCTAGCATTGTAAAGAAACACATAAGAACCCATACGATGTGCGGCCCTACCACTGCA 280

GAAP1 CTTACTGTAACTTCTCTCTTAAAGCTAAAGGAATCTGCAAAACACATGAGTCCAGGCCACATAGCAA 350  
PRDII CTTACTGTAACTTCTCTCTTAAAGCTAAAGGAATCTGCAAAACACATGAGTCCAGGCCACATAGCAA 350

GAAP1 GAAATGTGTGGATTTAGGCGTCTCAGTAGGTTTATAGATCAACAGGTTACAGAGATTCAGTTGAAAA 420  
PRDII GAAATGTGTGGATTTAGGCGTCTCAGTAGGTTTATAGATCAACAGGTTACAGAGATTCAGTTGAAAA 420

GAAP1 CAGAGATTGAGTTATGAGGATTCGGAATTCATCTTGAGCAATCTGATCGGCCAGATGAGGATCACATG 490  
GAAP1 CAGAGTTTCAGTTATGAGGATTCGGAATTCATCTTGAGCAATCTGATCGGCCAGATGAGGATCACATG 490

GAAP1 AAAATGAGACGATGATGAGGACAGCCAGGCTGATCTAGTCTGTCAGCCACACCTCAGTACAGCTAG 560  
PRDII AAAATGAGACGATGATGAGGACAGCCAGGCTGATCTAGTCTGTCAGCCACACCTCAGTACAGCTAG 560

GAAP1 CCGGCAGCACTTCCATCTTAGAGTAGCCTTCAGGACCCGTGAGTACTGACAGGATGTCAGGATCAC 630  
PRDII CCGGCAGCACTTCCATCTTAGAGTAGCCTTCAGGACCCGTGAGTACTGACAGGATGTCAGGATCAC 630

GAAP1 GATTGCTTTTCTGGGGTACACAGGACCCATGGAAGTCTCTGCCCAGGGGCTGCTCACCAATGACTG 700  
PRDII GATTGCTTTTCTGGGGTACACAGGACCCATGGAAGTCTCTGCCCAGGGGCTGCTCACCAATGACTG 700

GAAP1 TCTTGAGCACAGCACAGTCTGACCTACATAGGAAGACACTCTCTCGGGGAGGGCCAGCCAGGCTGCTG 770  
PRDII TCTTGAGCACAGCACAGTCTGACCTACATAGGAAGACACTCTCTCGGGGAGGGCCAGCCAGGCTGCTG 770

GAAP1 GACAGATGAAAACACACANTTCGGTCTGAGACACTTCCAGGTCCCGGTGTCATCAGATGCTGTGTC 840

FIGURE 14A (a)



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PRDII CGTTGATGCACAGGGAGCTCCAGAAATGCGAGCTTCCCAAGCAAGCATGCGAGACACAACTCAGCAG 1680

GAAP1 ACTTCTGTAGCCAGCGCAAAACAGGTACGAGGACCGAGTCTCTCAGGGGTTAOCCTACAGTCCAGGGG 1750

PRDII ACTTCTGTAGCCAGCGCAAAACAGGTACGAGGACCGAGTCTCTCAGGGGTTAOCCTACAGTCCAGGGG 1750

GAAP1 AAAATGCAAAAAAGTTCTGAATCCACTGCCCCCTGCAGGTGACCTTGCAGGGCTTGAATGGCTGAGTAA 1820

PRDII AAAATGCAAAAAAGTTCTGAATCCACTGCCCCCTGCAGGTGACCTTGCAGGGCTTGAATGGCTGAGTAA 1820

GAAP1 AATGGACACAGAGAGGCTGCTTGGCAATCAAGTGAAGGCCAAGGCTGAACTCACTTCCCTACAGGGC 1890

PRDII AATGGACACAGAGAGGCTGCTTGGCAATCAAGTGAAGGCCAAGGCTGAACTCACTTCCCTACAGGGC 1890

GAAP1 CAACCAGGCTCCAGGTACAAACCTCTGCTGAGGACATTTCTGAGTTTTTACAAAGGCCCTCAGGCCAGC 1960

PRDII CAACCAGGCTCCAGGTACAAACCTCTGCTGAGGACATTTCTGAGTTTTTACAAAGGCCCTCAGGCCAGC 1960

GAAP1 AGACTCTCTCTCCAGACAGACAGGTTCCAGGCCACAGGACTACCGGAGGCCAGGCCACTGTGCACCT 2030

PRDII AGACTCTCTCTCCAGACAGACAGGTTCCAGGCCACAGGACTACCGGAGGCCAGGCCACTGTGCACCT 2030

GAAP1 CAGCGAGGTGAGCAGCGATGTGTGAGGAGCAGGCTTGTGATAGCAACTGATG 2084

PRDII CAGCGAGGTGAGCAGCGATGTGTGAGGAGCAGGCTTGTGATAGCAACTGATG 2084

FIGURE 14A (c)

## REPLACEMENT SHEET

WO 02/098916

PCT/EP02/07064

1 GAAP-1 CODING SEQUENCE

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SEQ ID NO: 44

ATGGGGCAGAAGTTTCAAAAAAGAGA

GCATTAGGTAAATCAAAAGTCCACAGTAGTTGAATTACCAATTAAGTTGCTCTGAAATTAACGCTG

GAAP1 AGCAAGCTAAGCAAAATTCCTTAATCAAAAGTGAACCAAGAGAAATTAATAATTTGATGGAGCTATTA

GAAP1 GTCAATTCAGAGCTATGTAATGTCTCCGCGCAGGCGAGGCAAAATTCATTTGTGAGCAATGTCGAATA

GAAP1 CGTTGTAAAGAAACCTAGCATGTAAAGAAACACATACCAACCATACAGATGTCCGCCCCACCACTGCA

GAAP1 CTTACTGTACCTTCTCCTTTAAGCTAAAGCAAAATCTGACAAACACATGAAGTCCAGGCACATAGCAA

GAAP1 GAATGTGTTGGATTTAGCGCTCTCAGTAGCTTAAATGATCAACAGGTACAGAGCAATCAGATGAATA

GAAP1 CAGCAATTCAGTTATGAGGCTATCTGGATATGCTCTTGACAAATCTGATCGGCCAGATGAGGATGCAATG

GAAP1 AAATGTAGAGGATGATGAGGACAGCGAGCTCAATCAGTCTGTCAGCCACACCTCAGTCAAGGCTAG

GAAP1 CCCCAGCAACCTTCCATCTAGAGTAGCTTCAGGACCTGTGAGTACTGAGGAGGATGTCAGGTCACCC

GAAP1 GATTGCTTTTCTGGGGTACACAGGCAACCAATGGACCTTCTGCCCAGGGGGCTGCTCACCAATGACTG

GAAP1 TCTTGAGCACAGCACAGTCTGACTACATAGGAAGCACTCTCTCGGGGAGGCCCAGCCAGGCTGCTGC

GAAP1 GACAGATGAAGACACCAATTCCTGCTGTAGACACTTCAGGTCCCGTGGTATCAGATGCTGTGGAC

FIGURE 14B (a)

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GAAP1 TACCTGAGTCAGAGAAATTCCTGAGAGTTCTATGGCAGGAAAGCTGTTCCTATAACACAGAGGOCAT

GAAP1 CATCTGTAGACTTCCCTCTGCTGCAGCTGAGCAGGCCCCAGCAGCAGGCGGCATGCCCTTCGTGGC

GAAP1 CTCACCATCTCTGACCTCAGACAGAGCAGCAATACTCTACAGGOCCTCCAGGCTTGCCTTCT

GAAP1 CCCCACACTCATTGTGTTAGCCACCTTCCCTTTCGATTCCAGCAGCAATCCAGGACACCTTATATATGG

GAAP1 TTCCAGTTGGGGGATCCATGTGGTACCTGCTGGGCTCAGATCTCCAGCTTGTGTGCCCCCTTCAGGCTGG

GAAP1 ACCAGTGCAGCTCAGATCCCTGCTGTGAGTGTGCTTACAGAACTTTGGGTACTCATAGGATACGGTC

GAAP1 ACACAGTGTCTGGCACTACAACCCCTGCTGGAGTGGCTGAATTAGCAGTGTGTGCGCATGTATTCTTA

GAAP1 TCGGCAATCCGGGTGGCAGGCTTCAGAACTTAGTACCCAGGCTTGCAGTCACCTCCCTCGTTAAG

GAAP1 CATCGAAACCTCAATATTGTAGGCTTAGCCATACAAATATGGCCCCACAAGTCCATCCACAGGACTG

GAAP1 GCTCTGAATGCTGTGGACTCCAGGTTCTGACTGCAAAACCTTCATCAAAAGCAGCCCCGCCCCCAGG

GAAP1 CACACATTCCAGGTCCTCCAGTCTTTGAACATAGCAATTGGCCACCTTATTCCTCAGTCAGTCAAGTAGC

GAAP1 CGTTGATGCACAGGGAGCTCCGCAATGCCAGCTTCCCAAGCAAGCATGGGAGACACAAACCAAGCAG

FIGURE 14B (b)

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PRDII CGTTGATGCACAGGGAGCTCCAGAAATGCCAGCTTCCAAAGCAAAGCATGCCAGACACAATCCAGCAG

GAAP1 ACTTCTGTAGCCAGGGCAATCCAGGTACGACGACCTAGTCTCTCAGGGGTTAONTACAGTCCAGGGG

GAAP1 AAATGCAAAAAAGTTCTGAATCCACTGCCCCCTGCCAGGTGACCATGCCAAGGCTTGATGGCCTGAGTAA

GAAP1 PATGGACACAGACAAGGCTGCCCTGGGCAATCAAGTGAAGGCCAAGCCTGAATCACTTCCATACAGGGC

GAAP1 CAACCAGGGTCCAGTCCACAACCTCTGCTGAAGGCACATTCTGAAGTTTTTACAAAGCCCTCAGGCCAGC

GAAP1 AGACTCTCTCTCCAGACAGACAGGTGCCAGGCCACAGCACTACGGGGAGGCCAGGCCACTGTGCACTT

GAAP1 CAGCGACGTACGCAGCGATCATGACGAGGCACGCCCTTGATAGCAACCTCATG

FIGURE 14B (c)

## REPLACEMENT SHEET

WO 02/098916

PCT/EP02/07064

GAPP-2 coding seq

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SEQ ID NO: 45

1 ATGGGGCAGA AGTTTCAAAA AAAGAAATCT TACAGGCTGG TGTTAAAGGA  
TACCCCGTCT TCAAAGTTTT TTTCTTTAGA ATGTCGGACC ACAATTTCTT

51 ACTTCGGAAT CCCTTAAAGA GAGCATTAGG TAATCAAAAG TCCACAGTAG  
TGAAGCCTTA GGAATTTCT CTCGTAATCC ATTAGTTTTT AGGTGTCATC

101 TTGAATTCAG CAATAAGAT GCCTCTGAAA TTAACAGTGA GCAAGATAAA  
AACTTAAGTC GTTATTTCTA CGGAGACTTT AATTGTCACT CGTTCTATTT

151 GAAAATTCCT TAATCAAAAG TGAACCAAGA AGAATTAA/A TATTTGATGG  
CTTTTAAGGA ATTAGTTTTT ACTTGGTTCT TCTTAATTTT ATAACCTACC

201 AGGATATAAG TCAATGAAG AGTATGTATA TATCCGAGGC AGGGGAAGAG  
TCCTATATTC AGTTTACTTC TCATACATAT ATAGGCTCCG TCCCCTTCYC

251 GAAAATACAT TTGTGAGAA TGTGGAATAC GTTGTAAAGAA ACCTAGCATG  
CTTTTATGTA AACACTTCTT ACACCTTATG CAACATTCTT TGGATCGTAC

301 TTAAAGAAAC ACATACGAAC CCATACAGAT GTCCGCCCTT ACCACTGCAC  
AATTTCTTTG TGTATGCTTG GGTATGTCTA CAGGCGGGGA TGGTGACGTG

351 TTAAGTAAAC TTCTCCTTTA AGACTAAAGG AAATCTGACA AAACACATGA  
AATGACATTG AAGAGGAAAT TCTGATTTCC TTTAGACTGT TTTGTGTAAT

401 AGTCCAAGGC ACATAGCAAG AAATGTGTGG ATTTAGGCTT CTCAGTAGGT  
TCAGGTTCCG TGTATCGTTC TTTACACACC TAAATCCGTA GAGTCATCCA

451 TTAATAGATG AACAGGATAC AGAAGAATCA GATGAAAAAC AGAGATTCAG  
AATTATCTAC TTGTCTATG TCTTCTTAGT CTACTTTTIG TCTCTAAGTC

501 TTATGAGCGA TCTGGATATG ATCTTGAAGA ATCTGATGGC CCAGATGAGG  
AATACTCGCT AGACCTATAC TAGAATTCT TAGACTACCG GGTCTACTCC

551 ATGACAATGA AAATGAAGAC GATGATGAGG ACAGCCAGGC TGAATCAGTC  
TACTGTTACT TTTACTTCTG CTACTACTCC TGTCCGTTCC ACTTAGTCAG

601 CTGTCAGCCA CACCCTCAGT CACAGCTAGC CCGCAGCACC TTCCATCTAG  
GACAGTCGGT GTGGGAGTCA GTGTCGATCG GCGCTCGTGG AAGGTAGATC

651 AAGTAGCCTT CAGGACCCTG TGAGTACTGA CGAGGATGTC AGGATCACCG  
TTCATCGGAA GTCCTGGGAC ACTCATGACT GCTCCTACAG TCCTAGTGGC

701 ATTGCTTTTC TGGGGTACAC ACGGACCCAA TGGACGTTCT GCCCAGGGCG  
TAACGAAAAG ACCCCATGTG TGCCTGGGTT ACCTGCAAGA CGGGTCCCGC

751 CTGCTCACCA GAATGACTGT CTTGAGCACA GCACAGTCTG ACTACAATAG  
GACGAGTGGT CTTACTGACA GGACTCGTGT CGTGTCAAGC TGATGTTATC

801 GAAGACACTC TCTCCGGGGA AGGCCAGGCA GCGTGCTGCT AGAGATGAAA  
CTTCTGTGAG AGAGGCCCTT TCCGGTCCGT CGCAGCAGCG TCTCTACTTT

851 ACGACACAAT TCCGTCTGTA GACACTTCCA GGTCCCGCTG TCATCAGATG  
TGCTGTGTTA AGGCAGACAT CTGTGAAGGT CCAGGGGCACT AGTAGTCTAC

901 TCTGTGGACT ACCCTGAGTC AGAAGAAATT CTGAGAAGTT CTATGGCAGG  
AGACACCTGA TGGGACTCAG TCTTCTTTAA GACTCTTCAA GATACCGTCC

FIGURE 14C (a)

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951 AAAAGCTGTT GCTATAACAC AGAGCCCATC ATCTGTAAGA CTTCTCCTG
    TTTTCGACAA CGATATTGTG TCTCGGGTAG TAGACATTCT GAAGGAGGAC
-----
1001 CTGCAGCTGA GCACAGCCCC CAGACAGCAG CGGGGATGCC TTCTGTGGCC
    GACCTCGACT CGTGTGCGGG GTCTGTGCTC GCCCTACCG AAGACACCGG
-----
1051 TCACCACATC CTGACCCTCA AGAACAGAAG CAGCAAATAA CTCTACAGCC
    AGTGGTGTAG GACTGGGAGT TCTTGTCTTC GTCGTTTATT GAGATGTCGG
-----
1101 GACTCCAGGC TTGCCTTCTC CCCACACTCA TTTGTTTAGC CACCTTCCTT
    CTGAGGTCCG AACGGAAGAG GGGTGTGAGT AAACAAATCG GTGGAAGGAA
-----
1151 TGCATTCCCA GCAGCAATCG AGGACACCTT ATAATATGCT TCCAGTTGGG
    ACGTAAGGGT CGTCGTTAGC TCCTGTGGAA TATTATACCA AGGTCAACCC
-----
1201 GGGATCCATG TGGTACCTGC TGGCCTCACA TACTCCACCT TTGTGCCCCCT
    CCCTAGGTAC ACCATGGACG ACCGGAGTGT ATGAGGTGCA AACACGGGGA
-----
1251 TCAGGCTGGA CCAGTGCAGC TCACGATCCC TGCTGTCACT GTCGTTTACA
    AGTCCGACCT GGTACGCTCG AGTGCTAGGG ACGACAGTCA CAGCAAGTGT
-----
1301 GAACTTTGGG TACTCATAGG AATACGGTCA CAGAAGTGTC TGGCACTACA
    CTTGAAACCC ATGAGTATCC TTATGCCAGT GTCTTCACAG ACCGTGATGT
-----
1351 AACCCTGCTG GAGTGGCTGA ATTAAGCAGT GTTGTGCCAT GTATTCCAT
    TTGGGACGAC CTCACCGACT TAATTCGTCA CAACACGGTA CATAAGGATA
-----
1401 CGGCCAAATC CGCGTGCCAG GCCTCAGAA CCTAAGTAC CCAGGCTTGC
    GCGGGTTTAG GCGCACGGTC CGGAAGTCTT GGATTCATG GGTCCGAACG
-----
1451 AGTCACTCCC CTCGTTAAGC ATGGAACCG TCAATATTGT AGGCCTAGCC
    TCAGTGAGGG GAGCAATTCT TACCTTTGGC AGTTATAACA TCCGGATCGG
-----
1501 AATACAAATA TGGCCCCACA AGTCCATCCA CCAGGACTGG CTCTGAATGC
    TTATGTTTAT ACCGGGGTGT TCAGGTAGGT GGTCTGACC GAGACTTACG
-----
1551 TGTCGGACTG CAGGTTCTGA CTGCAAACCC TTCATCACA AGCAGCCCCG
    ACAGCCTGAC GTCCAAGACT GACGTTTGGG AACTAGTGTT TCGTCGGGGC
-----
1601 CCCCTCAGGC ACACATTCCA GGTCTCCAGA TCTTGAACA AGCATTGCCC
    GGGGAGTCCG TGTGTAAGGT CCAGAGGTCT AGAAGTTGTA TCGTAACGGG
-----
1651 ACCTTAATCC CCTCAGTCAG TCAAGTAGCC GTTGATGCAC AGGGAGCTCC
    TGAATTAGG GGAGTCAGTC AGTTCATCGG CAACTACGTG TCCCTCGAGG
-----
1701 AGAAATGCCA GCTTCCCAA GCAAAGCATG CGAGACACA CCCAAGCAGA
    TCTTTACGGT CGAAGGGTTT CGTTTCGTAC GCTCTGTGTT GGGTTCGTCT
-----
1751 CTTCTGTAGC CAGCGCAAAC CAGGTCAGCA GGACCGAGTC TCCTCAGGGG
    GAAGACATCG GTCGCGTTTG GTCCAGTCGT CCTGGCTCAG AGGAGTCCCC
-----
1801 TTACCTACAG TCCAGCGGGA AAATGCAAAA AAGTTCTGTA ATCCACCTGC
    AATGGAATGC AGGTGCGCCCT TTTACGTTTT TTTCAAGAC TAGGTGGACC
-----
1851 CCCTGCAGGT GACCATGCAA GGCTTGATGG CCTGAGTAA ATGGACACAG
    GGGACGTCCA CTGGTACGTT CCGAACTACC GGACTCATT TACCTGTGTC
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FIGURE 14C (b)



1901 AGAAGGCTGC CTCGGCAAAT CACGTGAAGC CCAAGCCTGA ACTCACTTCC  
TCTTCCGACG GAGCCGTTTA GTGCACTTCG GGTTCGGAAT TGAGTGAAGG

1951 ATACAGGGCC AACCAGCGTC CACGTCACAA CCTCTGCTGA AGGCACATTC  
TATGTCCCGG TTGGTCGCAG GTGCAGTGTT GGAGACGAAT TCCGTGTAAG

2001 TGAAGTTTTT ACAAGCCCT CAGGCCAGCA GACTCTCTCT CCAGACAGAC  
ACTTCAAAAA TGTTTCGGGA GTCCGGTCGT CTGAGAGAGA GGTCTGTCTG

2051 AGGTTCCAG GCCACAGGA CTACCGCGGA GCCAGCCCAC TGTGCACTTC  
TCCAAGGGTC CGGGTGTCTT GATGGCGCCT CCGTCGGGTG ACACGTGAAG

2101 AGCGACGTGA GCAGCGATGA TGACGAGGAC AGGCTTGTGA TAGCAACCTG  
TCGCTGCACT CGTCGCTACT ACTGCTCCTG TCCGAACAAT ATCGTTGGAC

2151 A  
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FIGURE 14C (c)

## REPLACEMENT SHEET

WO 02/098916

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PCT/EP02/07064

SEQ ID NO: 40 and 41

## 2 GAAP-1 POLYPEPTIDE

>GAAP-1

GAAP1 MALGNQKSTVVEFSNKAASENSEQDKNSLTKSEPRRTKTFDGGYKNEKVVYVRGGGGKVICPEQGI 70  
FRDII MALGNQKSTVVEFSNKAASENSEQDKNSLTKSEPRRTKTFDGGYKNEKVVYVRGGGGKVICPEQGI 70

GAAP1 RCKKPSMLKKHHRHTDVRPYHCTYCNFSPTKGNLTREKSKAHSKCVLLGVSUGLIDEDQDSESDEK 140  
FRDII RCKKPSMLKKHHRHTDVRPYHCTYCNFSPTKGNLTREKSKAHSKCVLLGVSUGLIDEDQDSESDEK 140

GAAP1 QRFYSYERSGYDLSESDCPEDEPNENEDDEDSQAESVLATPSVTASFOHLPSSSLQDPVSTIDEDVRTT 210  
FRDII QRFYSYERSGYDLSESDCPEDEPNENEDDEDSQAESVLATPSVTASFOHLPSSSLQDPVSTIDEDVRTT 210

GAAP1 DCFSGVHTDPMVLEPRALLTRMTVLSTAQSDVNRKLSFGKARQRAARDENDTTPSVDTSRSPCHQMSVD 280  
FRDII DCFSGVHTDPMVLEPRALLTRMTVLSTAQSDVNRKLSFGKARQRAARDENDTTPSVDTSRSPCHQMSVD 280

GAAP1 YPSESEILRSSMAGKAVATTQSPSSVRLPFAAAEHSPQTAAGMPSVASHPHDFQEQROQITLQPTFGLPS 350  
FRDII YPSESEILRSSMAGKAVATTQSPSSVRLPFAAAEHSPQTAAGMPSVASHPHDFQEQROQITLQPTFGLPS 350

GAAP1 PETHLFSHLPLHSQQQSETFYAMVPVGGHWEAGLTYSTFVFLQAGFVQLITPAVSWVERTLGTHRTIV 420  
FRDII PETHLFSHLPLHSQQQSETFYAMVPVGGHWEAGLTYSTFVFLQAGFVQLITPAVSWVERTLGTHRTIV 420

GAAP1 TEVSGITNEAGVAELSSWVECTPTGQDRVFLQNLSTFGLOSLPSLMEIVNTVGLANTMAPQVHPFGL 490  
FRDII TEVSGITNEAGVAELSSWVECTPTGQDRVFLQNLSTFGLOSLPSLMEIVNTVGLANTMAPQVHPFGL 490

GAAP1 ALNAVGLQVLTANPSSQSSPAQAHITGLQITLNTALPILTPSVSQVAVDAGAPEMFASQSKACETQPRQ 560  
FRDII ALNAVGLQVLTANPSSQSSPAQAHITGLQITLNTALPILTPSVSQVAVDAGAPEMFASQSKACETQPRQ 560

GAAP1 TSVASANQVSTESPOGLPTVQRENARKVLNPPAPAGDHARDGLSMQTEKASANEVKKPELITSIQG 630  
FRDII TSVASANQVSTESPOGLPTVQRENARKVLNPPAPAGDHARDGLSMQTEKASANEVKKPELITSIQG 630

GAAP1 QFASTSQPLLKARSEVFKPSGQQTLSPTDQVFRPTGLERQPTVHFSQVSSDDDEDLVAT 694  
FRDII QFASTSQPLLKARSEVFKPSGQQTLSPTDQVFRPTGLERQPTVHFSQVSSDDDEDLVAT 694

FIGURE 15 A

## 2 GAAP-1 POLYPEPTIDE

&gt;GAAP-1

M GQKFOKKR..ALGNKSTVVEFSNKAASKINSBQDKENSLIKSEPRRIKIFDGGYKSNEEVVWVRGGGKYICEPGI

GAAP1 RCKKPSMLKKHRIHTDVRPYHCTVYCNFSPTKGLLTKRMKSAHSKRCVDLGVSUGLIDQOUTESDEK

GAAP1 QRFVSVERSGYDLSESDGPDIEDNENEDDEDSQAESVLSATPSVTASFOHLPSRSSLQDFVSTDEVRIT

GAAP1 DCFSGVEIDMDVLEFRALLTRMTVLSTAQSDYNRCLSPGKARQRAARDENOTTESVDTISRSFCHQMSVD

GAAP1 YPESSEILRSSMAGKAVATTQSPSSVRLPFAAAHSPQTAAGMPSVASHPDQCEKQQTTLQFTPLPS

GAAP1 PHTLFSHLPLHSQQQSRTPYNNVFGGIRVPEGLTYSTFVFLQAGFVQLTIPAVSVWHRTLGTHRNIV

GAAP1 TEVSGTINEAGVAELSSWFCIFGQIRVPLQLNSTPGLQSLPSLMEIVNIVGLANINMAPQVHPGL

GAAP1 A<sup>1</sup>NAVGLQVLITANPSSQSSPAQAHIRGLQILNIALPLIPSVSQVAIDAQGAFEMPASQSQACETQPRQ

GAAP1 TSVASANQVSRITESPQGLPTVQRENARKVLNPPAPAGCHARDGLSRMDEKAASANEVKRPELTSTIQG

GAAP1 QPASTSQFLIKAHSEVFTKPSQQQLSPDRQVPRPTALRRQPTVEFSQVSSDDDEDRIWTAT

FIGURE 15 B

## REPLACEMENT SHEET

WO 02/098916

PCT/EP02/07064

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GAAP-2

SEQ ID NO: 47

1 MGQKFQKKKS YRLVLKELRN PLKRALGNQK STVVEFSNKO ASEINSEQDK  
-----  
51 ENSLIKSEPR RIKIFDGGYK SNEEYVYIRG RGRGKYICEE CGIRCKKPSM  
-----  
101 LKKHIRTHTD VRPYHCTYCN FSKTKGNLT KRMKSKAHSK KCVDLGISVG  
-----  
151 LIDEQDTEES DEKQRFSEYER SGYDLEESDG PDEDDNENDD DDEDSQAESV  
-----  
201 LSATPSVTAS PQHLPSSSL QDPVSTDEDV RITDCFSGVH TDPMDVLPRA  
-----  
251 LLTRMTVLST AQSDYNRRTL SPGKARQRAA RDENDTIPSV DTSRSPCHQM  
-----  
301 SVDYPESEEI LRSSMAGKAV AITQSPSSVR LPPAAAEHSP QTAAGMPSPA  
-----  
351 SPHPDPQEQK QQITLQPTPG LPSPTHLS HLPLHSQQQS RTPYNMVPVG  
-----  
401 GIHVVPAGLT YSTFVPLQAG PVQLTIPAVS VVHRTLGTHR NTVTEVSGTT  
-----  
451 NPAGVAELSS VVPCIPIGQI RVPGLQNLST PGLOSLPSLS METVNIVGLA  
-----  
501 NTNMAQVHP PGLALNAVGL QVLTANPSSQ SSPAPQAHIP GLQILNIALP  
-----  
551 TLIPSVSQA VDAQGAPEMP ASQSKACETQ PKQTSVASAN QVSRTESPQG  
-----  
601 LPTVQRENAK KVLNPPAPAG DHARLDGLSK MDTEKAASAN HVKPKPELTS  
-----  
651 IQGQPASTSQ PLLKAHSEVF TKPSGQQTLS PDRQVPRPTG LPRRQPTVHF  
-----  
701 SDVSSDDDED RLVIAT  
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FIGURE 15 C